

	10	20	30	40	50	60	70				
1	MGVQ----	FGDFIPK--	NIISFEDL	KGKKVAID	GMNALYQF	LT	SIRLRDGS	PLNRKGEIT	SAYNGV	FY	MJAFEN1. PRO
1	MGVP-----	IGEIIPR--	KEIELENL	YGKKIAID	ALNAIYQF	LS	TIRQKDG	TPLMDSKGR	ITSHLSGL	FY	PFUFEN1. PRO
1	MGIQGLAKLI	ADVAPSAI	RENDIKSY	FGRKVAID	ASMSIYQF	LI	AVRQ-GGD	VLQNEEGET	TS-SHLMGM	FY	HUMFEN1. PRO
1	MGIHGLAKLI	ADVAPSAI	RENDIKSY	FGRKVAID	ASMSIYQF	LI	AVRQ-GGD	VLQNEEGET	TS-LMGM	FY	MUSFEN1. PRO
1	MGIKGLNAII	SEHVPSAI	RKSDIKS	FFGRKVAID	ASMSLYQF	LI	AVRQDGG	QLTNEAGET	TS-SHLMGM	FY	YST510. PRO
1	MGVHSFWDI	AG----	PTARPVR	LESLEDK	RMAVDASI	WIYQF	LKAVRDQ	EGNAVKN-	-----	SHITGFFR	YSTRAD2. PRO
1	MGVSGLWNI	E-----	PVKRPVK	LETLVNK	RLAIDASI	WIYQF	LKAVRDKE	GNQLKS-	-----	SHVVGGFFR	SPORAD13. PRO
1	MGVQGLWKLL	E-----	CSGROVS	PEALEG	KILAVDIS	IWLNQAL	KGVRDR	HGNSIEN-	-----	PHLLTLFH	HUMXPG. PRO
1	MGVQGLWKLL	E-----	CSGHRVS	PEALEG	KVLAVDIS	IWLNQAL	KGVRDS	HGNVIEN-	-----	AHLLTLFH	MUSXPG. PRO
1	MGVQGLWKLL	E-----	CSGRPIN	PGTLEG	KILAVDIS	IWLNQAV	KGARDR	QGNAIQN-	-----	AHLLTLFH	XENXPG. PRO
1	MTINGIWEWA	NHVV----	RKVPNET	MRDKT	LSIDGHI	WLYESL	KGCEAH	HQQT----	PNSYLVT	FF	CELRAD2. PRO

	80	90	100	110	120	130	140
64	KTIHLENDITPIWVFDGEPPKLKEKTRKVRREMMKEAELKMKEAIKK	----	EDFEEAAKYAKRVSYLTP	MJAFEN1. PRO			
64	RTINLMEAGIKPVYVFDGEPPEFKKKELEKRREAREEAEKWR	EALEK	----	GEIEEARKYAQRATRVNE	PFUFEN1. PRO		
70	RTIRMMENGIKPVYVFDGKPPQLKSGELAKRSERRAEAEKQLQQAQA	----	GAEOVEKFTKRLVKVT	HUMFEN1. PRO			
69	RTIRM-ENGIKPVYVFDGKPPQLKSGELAKRSERRAEAEKQLQQAQA	----	GMEEEVEKFTKRLVKVT	MUSFEN1. PRO			
71	RTLRMIDNGIKPCYVFDGKPPDLKSHELTKRSSRRVETEK	KLAA--EA	----	TTELEKMKQERRLVKVS	YST510. PRO		
61	RICKLLYFGIRPVVFVFDGGVPVLKRETIRQKERRQKRESAK	STARKLLALQLQNGSNDNKRDS	DEV	TM	YSTRAD2. PRO		
61	RICKLLFFGIKPVVFVFDGGAPSLKRQTIQKRQARRLDREEN	ATVTANKLLALQMRHQAMLLKRD	AD	EV	TQ	SPORAD13. PRO	
61	RLCKLLFFRIRPIFVFDGDAPLLKKQTLVKKRQRKDLASSD	SRKTTEKLLKTFLKRQAIKTERIA	AAT	VTG	HUMXPG. PRO		
61	RLCKLLFFRIRPIFVFDGDAPLLKKQTLAKRRQRKDSASID	SRKTTEKLLKTFLKRQALKTDRIA	AAS	VTG	MUSXPG. PRO		
61	RLCKLLFFRIRPIFVFDGEAPLLKRQTLAKRRQRQTDKAS	NDARKTNEKLLRTFLKRQAIKAERIA	AAT	VTG	XENXPG. PRO		
61	RLCKLLFFRIRPIFVFDNINASSAHESKDQNEFVPRKRRS	FGDSPFTNLV	-----	-----	CELRAD2. PRO		
60	RIQRLLLEKIPIVVF						

FIG. 70A

	150	160	170	180	190	200	210
130	KMVENCKYLLSLMGIPIYVEAPSEGEAQASYMAKKGDVWVVSQDYDALLYGAPRVVRNLTTTKEM----						MJAFEN1.PRO
130	MLIEDAKKLLLELMGIPIVQAPSEGEAQAAAYMAAKGSVYASASQDYDSLFLFGAPRLVRNLTTITGKRKLPGK						PFUFEN1.PRO
136	QHNDCKHLLSLMGIPIYLDAPSEAEASCAALVKAGKVYAAATEDMDCLTFGSPVLMRHLTASEAKKLPIQ						HUMFEN1.PRO
134	QHNDCKHLLSLMGIPIYLDAPSEAEASCAALAKAGKVYAAATEDMDCLTFGSPVLMRHLTASEAKKLPIQ						MUSFEN1.PRO
134	EHNEEAQKLLGLMGIPIYIIAPTEAEQAELAKKGVYAAASEMDTLCYRTPFLLRHLTFSEAKKEPIH						YST510.PRO
134	DMIKEVQELLSRFGIPYITAPMEAEQAELQLNLVDGIIITDDSDVFLFGGTKIYKNMFHEKNY----						YSTRAD2.PRO
131	VMIKECQELLRFLGIPYIVAPOEAEQAQCSKLLLELKLVDGIVTDDSDVFLFGGTRVYRNMFNQKF----						SPORAD13.PRO
131	QMFLESQELLRFLGIPYIQAPMEAEQAQCAILDITDQTSGTITDDSDIWLFGARHVYRNFFNKNKF----						HUMXPG.PRO
131	QMFLESQELLRFLGVPYIQAPMEAEAOCAVLDLSDQTSGTITDDSDIWLFGARHVYKNFFNKNKF----						MUSXPG.PRO
131	QMCLESQELLRFLGIPYIVAPMEAEQAQCAILDITDQTSGTITDDSDIWLFGARHVYKNFFSQNKH----						XENXPG.PRO
111	DHVYKTNALLTELGIKVIIPAGDGEAQCARLEQLGVTSGCITTDFDYFLFGGKNLYRFDFTAGT-----						CELRAD2.PRO

	220	230	240	250	260	270	280
195	-----PELIELNEVLEDLRISLDDLIDIAIFMGTDYNPGGV--K--GIGFKRAYELVRSGVAK--DV						MJAFEN1.PRO
200	NVYVE-IKPELIIILEEVLKELKLTREKLIELAILVGTDYNPGGI--K--GIGLKKALEIVRHSKDPLAKF						PFUFEN1.PRO
206	EFHLSRILQELGLNQEQFVLDLCIILGSDYCESIRGIGPKRAVDLIQK--HKSIEEIVRRLDPN-----KY						HUMFEN1.PRO
204	EFHLSRVLQELGLNQEQFVLDLCIILGSDYCESIRGIGAKRAVDLIQK--HKSIEEIVRRLDPS-----KY						MUSFEN1.PRO
204	EIDTELVLRLGLDLTIEQFVLDLCIMLGCDYCESIRGVGPVTALKIKT--HGSIEKIVEFIESGESNNTKW						YST510.PRO
198	FYDAESILKLLGLDRKNMIELAQLLGSDYTNGLKMGMPVSSIEVIAEF--GNLKNFKDWYNNNGOFDKRK						YSTRAD2.PRO
198	LYLMDDMKREFNVNQMDLIKLAHLLGSDYTMGLSRVGPVLALEILHEFPDGTGLFEFKKWFQRLSTGHAS						SPORAD13.PRO
198	YYQYVDFHNQLGLDRNKLINLAYLLGSDYTEGIPTVGCVTAMEILNEFPBGHGLEPLKFSEWWHEAQKNP						HUMXPG.PRO
119	YYQYVDFYSQLGLDRNKLINLAYLLGSDYTEGIPTVGCVTAMEILNEFPBGHGLEPLKFSEWWHEAQNNK						MUSXPG.PRO
198	YYQYADIHNOLGLDRSKLINLAYLLGSDYTEGIPTVGYVSAMEILNEFPGQGLEPLVKFKEWWSEAQKDK						XENXPG.PRO
175	-----SSTACLHDIMHLSLGRMFM-----						CELRAD2.PRO

FIG. 70B

	290	300	310	320	330	340	350
251	LKKEVEYYDEIKRIFKEPKV	-----	-----	-----	-----	-----	MJAFEN1.PRO
265	QKQSDVDLYAIKEFFLNPPV	-----	-----	-----	-----	-----	PFUFEN1.PRO
269	PVPENWLHKEAHQLFLEPEV	-----	-----	-----	-----	-----	HUMFEN1.PRO
267	PVPENWLHKEAQQLFLEPEV	-----	-----	-----	-----	-----	MUSFEN1.PRO
272	KIPEDWPYKQARMFLDPEV	-----	-----	-----	-----	-----	YST510.PRO
265	QETENKFEKDLRKKLVNNEI	ILDDDFPSVMVYDAYMRPEVDHDTTPFVWGV	PDLM	LRSM	KTQL	GWPH	YSTRAD2.PRO
268	KNDVNTPVKKRINKLVGK	-IILPSEFPNPLVDEAYLHPAVDDSKQSFQW	GIPDL	DEL	RQFL	MATV	SPORAD13.PRO
268	KIRPNPHDTKVKKKL	--RTLQLTPGFPNPAVAEAYLKPVVDDSKG	SFLW	GKPD	LDKIRE	FCQRY	FGWNR
268	KVAENPYDTKVKKKL	--RKLQLTPGFPNPAVADAYLRPVVDDSR	GSLW	GKPD	VDKIRE	FCORY	FGWNR
268	KMRPNPNDTKVKKKL	--RLDLQQSFPNPAVASAYLKPVVDESKS	AFSW	GRPD	LEQIRE	FCESR	FGWYRL
194	-----EKKVSRPHL	ISTAILLGCDYFORGVQNI	GIVSVFD	-ILGEFGDDGNEE	IDPH	VILDR	FASVYRE
	360	370	380	390	400	410	420
300	RVKKHVDKLYNLIA	-----	-----	-----	-----	-----	MJAFEN1.PRO
314	RVKNGLERLKKAI	-----	-----	-----	-----	-----	PFUFEN1.PRO
320	RIRSGVKRLSKSRQGS	-TQGR	LDDFFKVT	-----	-----	-----	HUMFEN1.PRO
318	RIRSGVKRLSKSRQGS	-TQGR	LDDFFKVT	-----	-----	-----	MUSFEN1.PRO
323	RVKSGISRLKKGLKSG	-IQGR	LDDFFOVV	-----	-----	-----	YST510.PRO
335	KSDEILIP	IRDVNKRKK	-----	-----	-----	-----	YSTRAD2.PRO
337	RTNEVLLPVIQDMHKKOF	-----	-----	-----	-----	-----	SPORAD13.PRO
336	KTDES	LPVLKQLDAQQTQLRIDS	FFRLAQ	QEKEDAKRIKSQRLNRAVTCMLRKE	KEAA	SEIE	AVSVAM
336	KTDES	LPVLKHLNAHQQTQLRIDS	FFRLAQ	QEKQDAKLKSHRLSRAVTCMLRKE	REEKA	PELTK	VTEAM
336	KTDEV	LLPVLKQLNAQQTQLRIDS	FFRLAQ	QHEAAG--LKSQRLRRAVTCMKR	KERD	VEAEE	VEAAVAM
257	EIPARSED	TQRKLR	LRKKYNFPVGF	PNCD	AVHNAITMYLRPPVSSEIPKII	PR----	AANFQQVAEIM

FIG. 70C